

That Which Is Claimed Is:

5 1. A starch-based adhesive composition for use in cigarette manufacture, the starch-based adhesive composition including a dispersible unmodified starch that thickens on heating to a temperature greater than about 50°C.

2. The starch-based adhesive composition of Claim 1 including about 0 to 5 percent by weight of a rheology modifier.

3. The starch-based adhesive composition of Claim 1 including about 2 to 25 percent of the unmodified starch.

5 4. The starch-based adhesive composition of Claim 2 wherein the rheology modifier is selected from the group consisting of urea, xanthan gum, alginates, casein, carrageen, guar gum, gum ghatti, gum karaya, locust bean gum, gum arabic, agglutinates, alginates, and cellulose ethers.

5 5. The starch-based adhesive composition of Claim 1 wherein the dispersible unmodified starch is selected from the group consisting of maize, wheat, potato, arrowroot, rice, sago, barley, sorghum, rye, triticale, tapioca, waxy maize, waxy sorghum, sweet potato, waxy rice and mung bean starches.

5 6. The starch-based adhesive composition of Claim 1 wherein the adhesive composition has an ambient temperature viscosity of about 1000 cps to 20,000 cps before thickening on heating to a temperature greater than about 50°C.

7. The starch-based adhesive composition of Claim 1 wherein the adhesive composition has a solids content of about 10 to 60 percent.

8. The starch-based adhesive composition of Claim 1 wherein the adhesive composition includes an anti-foaming agent or preservative or both.

9. The starch-based adhesive composition of Claim 8 wherein the anti-foaming agent is a mineral oil.

10. The starch-based adhesive composition of Claim 8 wherein the preservative is benzisothiazolinone.

11. A starch-based adhesive composition for use in cigarette manufacturing comprising:

(a) 5 to 60 percent by weight of a modified starch;

5 (b) 2 to 25 percent by weight of a dispersible unmodified starch that thickens on heating to a temperature of at least about 50°C;

10 (c) 0 to 5 percent of a rheology modifier selected from the group consisting of urea, xanthan gum, alginates, casein, carrageen, guar gum, gum ghatti, gum karaya, locust bean gum, gum arabic, agglutinates, alginates, and cellulose ethers.

(d) 0 to 1 percent by weight of a preservative; and,

15 (e) 0 to 1 percent by weight of an anti-foaming agent.

12. The starch-based adhesive composition of Claim 11 wherein the dispersible starch that thickens on heating to a temperature greater than about 50°C is

5 selected from the group consisting of maize, wheat, potato, arrowroot, rice, sago, barley, sorghum, rye, triticale, tapioca, waxy maize, waxy sorghum, sweet potato, waxy rice and mung bean starches.

13. The starch-based adhesive composition of Claim 11 wherein the adhesive composition has a solids content of about 10 to 60 percent.

14. The starch-based adhesive composition of Claim 11 wherein the anti-foaming agent is a mineral oil.

15. The starch-based adhesive composition of Claim 11 wherein the preservative is benzisothiazolinone.

5 ^{Sub 61} 16. In a cigarette characterized by a rod of an amount of tobacco wrapped in a paper tube, the paper tube being glued along a longitudinal edge with an adhesive, the improvement comprising the use as the additive of an adhesive composition that includes a dispersible unmodified starch that thickens on heating to a temperature greater than about 50°C.

² 17. In a cigarette according to Claim ¹16 including about 0 to 5 percent by weight of a rheology modifier.

³ 18. In a cigarette according to Claim ¹16 including about 2 to 25 percent of the dispersible unmodified starch.

⁴ 19. In a cigarette according to Claim ¹16 wherein the rheology modifier is selected from the group consisting of urea, xanthan gum, alginates,

5 casein, carrageen, guar gum, gum ghatti, gum karaya,
locust bean gum, gum arabic, agglutinates, alginates,
and cellulose ethers.

^S 20. In a cigarette according to Claim ¹~~16~~
wherein the dispersible unmodified starch is selected
from the group consisting of maize, wheat, potato,
arrowroot, rice, sago, barley, sorghum, rye, triticales,
tapioca, waxy maize, waxy sorghum, sweet potato, waxy
rice and mung bean starches.

⁶ 21. In a cigarette according to Claim ¹~~16~~
wherein the adhesive composition has an ambient
temperature viscosity of about 1000 cps to 20,000 cps
before thickening on heating to a temperature greater
5 than about 50°C.